| Index of | Claims |
|----------|--------|
|          |        |

| Application No. | Applicant(s)  |
|-----------------|---------------|
| 10/692,370      | TANADA ET AL. |
| Examiner        | Art Unit      |

| , | Rejected | _ | (Through<br>Cand |
|---|----------|---|------------------|
| = | Allowed  | ÷ | Rest             |

| _ | (Through numeral)<br>Cancelled | N | Non-Elected  |
|---|--------------------------------|---|--------------|
| ÷ | Restricted                     | ı | Interference |

Jeanne A. Di Grazio

| Α | Appeal   |
|---|----------|
| 0 | Objected |

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| Cla         | aim      | Date            |          |          |          |          |   |          | Cla  | aim  | Date |          |          |                 |          | _!::::    | Claim    |          | Date                 |               |               |  |            |          |                     |           |          |          |          |          |          |          |
|-------------|----------|-----------------|----------|----------|----------|----------|---|----------|--|--|------|----------|----------|-----------------|----------|-----------|----------|----------|----------------------|---------------|---------------|--|------------|----------|---------------------|-----------|----------|----------|----------|----------|----------|----------|
| Final       | Original |                 |          |          |          |          |   |          |  |  |      | Final    | Original |                 |          |           |          |          |                      |               |               | Final  | Original   | •        |                     |           |          |          |          |          |          |          |
|             | 1-       |                 | -        | _        | $\dashv$ |          |   |          |  | $\vdash$   |      |          | 51       | $\vdash$        | ᅥ        | $\dashv$  | +        | 7        | _                    | 11            |               |  | 101        |          |                     | 1         |          | 1        |          | $\top$   | $\dashv$ | $\neg$   |
|             | 2-       |                 | _        |          | 寸        |          | _   | _        |  | Г  |      |          | 52       | П               | 1        | 1         | _        |          | $\top$               |               |               |  | 102        |          |                     | $\exists$ |          |          |          | $\Box$   |          |          |
|             | 3_       |                 |          |          |          |          |   |          |  |  |      |          | 53       |                 |          |           |          |          |                      |               |               |  | 103        |          |                     |           |          |          |          | $\Box$   |          |          |
|             | 4_       | $\Box$          |          |          |          |          |   |          |  |  |      |          | 54       |                 |          |           |          |          |                      |               |               |  | 104        |          |                     |           |          |          |          | $\perp$  |          |          |
|             | 5        | _               |          |          |          |          |   |          |  |  |      |          | 55       |                 |          |           |          | _        |                      | 1             | _             |  | 105        |          |                     | $\perp$   |          |          |          | _        | _        | _        |
|             | 6        |                 |          |          |          |          |   |          |  |  |      |          | 56       |                 |          | _         | _        | _        |                      | -             | 4             |  | 106        |          |                     | _         |          |          | _        | $\dashv$ | _        | ᅴ        |
|             | 7        | √               |          | _        |          |          | _   |          |  | <u> </u>   |      |          | 57       | Щ               | _        | $\dashv$  | $\dashv$ | _        |                      | $\bot$        | 4::::         | <u> </u>   | 107        |          | -                   |           | _        |          |          | $\dashv$ | $\dashv$ | -        |
|             | 8        | <b> </b> √      | $\dashv$ | _        |          | _        | _   |          | _  |  |      |          | 58       | Н               |          | -         | $\dashv$ | 4        |                      | ╁             | -             | <u> </u>   | 108        |          | $\vdash$            | $\dashv$  |          |          |          | $\dashv$ | $\dashv$ | ᅴ        |
|             | 9        | 1               | -        | -        | -        | _        | _   | _        | _  |  |      |          | 59       | Н               |          | -         | +        | -        |                      | ++            |               | -  | 109<br>110 |          | $\vdash$            | $\dashv$  |          |          |          |          | $\dashv$ |          |
|             | 10       | $\vdash$        | -+       | -1       |          | -        | _   | _        | ⊢  |  |      |          | 60<br>61 | Н               | -        | -         | +        | $\dashv$ |                      | ++            | -             |  | 111        | -        | $\vdash$            | -         |          |          | $\dashv$ | +        | $\dashv$ |          |
|             | 11       | H               | -+       | ╛        |          | ᅱ        | -   |          | $\vdash$   | $\vdash$   |      | -        | 62       | Н               |          | -+        | +        | +        |                      | +             | -             |  | 112        |          | $\vdash$            | -         | _        | -        | ᅱ        | $\pm$    | $\dashv$ | _        |
| -           | 13       | ┥               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$  |          | $\vdash$   | $\vdash$   |      |          | 63       | $\vdash$        | -        | -+        | +        | +        |                      | ++            | 1             | <del>                                     </del> | 113        |          | $\vdash$            | -         |          |          | $\dashv$ | $\dashv$ | 十        | ᅱ        |
|             | 14       | $\vdash$        | $\dashv$ | $\dashv$ | -        | -        |   |          | $\vdash$   | <del>                                     </del> |      |          | 64       | $\vdash$        | -        | $\dashv$  | $\dashv$ | 7        | $\top$               | 1 1           | 1             | <b></b>  | 114        | П        | $\vdash \uparrow$   | 7         | 寸        |          | $\dashv$ | $\dashv$ | $\neg$   | $\dashv$ |
| $\vdash$    | 15       | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\neg$   |   |          | _  | $\vdash$   |      |          | 65       | $\vdash$        | 1        | 寸         | 十        | 7        | $\neg$               |               | 7             | -  | 115        | $\vdash$ |                     | $\dashv$  | T        |          |          | 寸        | _        | ヿ        |
|             | 16       | H               | $\dashv$ | _        | _        |          |   |          |  |  |      |          | 66       | П               |          | T         | _        | $\neg$   |                      |               | 7::::         |  | 116        |          |                     | ヿ         | $\neg$   |          |          | $\Box$   | $\neg$   | $\neg$   |
|             | 17       | П               | ┪        | $\neg$   | $\neg$   |          |   |          | _  | T  |      |          | 67       | П               | ļ        | $\exists$ |          | $\neg$   |                      |               | 7             |  | 117        |          |                     |           |          |          |          |          | $\Box$   |          |
|             | 18       | $\Box$          | $\neg$   | $\neg$   |          |          |   |          |  |  |      |          | 68       |                 |          |           |          |          |                      |               | ]             |  | 118        |          |                     |           |          |          |          |          |          | $\Box$   |
|             | 19       |                 |          |          |          |          |   |          |  |  |      |          | 69       |                 |          |           |          |          |                      |               |               |  | 119        | <u> </u> |                     |           |          | _        | _        | $\perp$  | $\dashv$ | $\Box$   |
|             | 20       |                 |          |          |          |          |   |          |  |  |      |          | 70       |                 |          |           |          |          |                      | $oxed{oxed}$  | _             | <u> </u>   | 120        |          | Ш                   |           | _        | _        | _        |          | _        | _        |
|             | 21       |                 |          |          |          |          |   |          |  |  |      |          | 71_      |                 |          |           |          | _        |                      | $\perp \perp$ | _ ::::        |  | 121        | _        | Ш                   |           |          | _        |          | _        |          | 4        |
|             | 22       |                 |          |          |          |          |   |          | <u></u>  |  |      |          | 72       |                 |          |           |          |          |                      |               | _             |  | 122        |          | Ш                   |           |          | _        | _        | _        | $\dashv$ | 4        |
|             | 23       |                 |          |          |          |          |   |          | <u>L</u> _                                       |  |      |          | 73       |                 |          | _         | _        | -        | _                    | $\bot \bot$   | 4             |  | 123        | _        | $\vdash$            | _         |          | _        |          | -        | $\dashv$ | $\dashv$ |
|             | 24       |                 | _        | _        | _        |          |   |          | <u> </u>   | _  |      | _        | 74       | $\vdash$        | -        | -         | -        | 4        | _                    | ++            | 4::::         |  | 124        | _        | $\vdash$            | -         |          | $\dashv$ | -        | $\dashv$ | $\dashv$ | 긕        |
|             | 25       | $\sqcup$        | _        |          |          | _        |   | <u> </u> | <b> </b>   | _  |      | <u> </u> | 75       | $\vdash$        | -        | -+        |          | +        | -                    | ++            | -             |  | 125<br>126 | -        | $\vdash$            |           | -        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |
| -           | 26       | Н               | _        |          | $\dashv$ |          |   |          | ├  | ⊢  |      |          | 76<br>77 | $\vdash$        | $\dashv$ | $\dashv$  | -+       | $\dashv$ | +                    | -             | -             |  | 127        | -        | $\vdash$            | -         |          | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |
|             | 27<br>28 | H               | -        | -+       | $\dashv$ |          |   |          | -  | ┢  |      |          | 78       | $\vdash$        | $\dashv$ | -         | +        | $\dashv$ |                      | ╁┼┼           | -             |  | 128        |          | $\vdash$            |           | -        |          | -        | $\dashv$ | $\dashv$ | ㅓ        |
|             | 29       |                 | -+       | -+       | $\dashv$ | $\dashv$ | _   | -        | $\vdash$   | ├  |      |          | 79       | $\vdash$        | -        | -+        | $\dashv$ | $\dashv$ | -                    | ┤─┤╌          | -             | -  | 129        | $\vdash$ | $\vdash$            | -         | $\dashv$ |          |          | $\dashv$ | $\dashv$ | ᅥ        |
|             | 30       | $\vdash$        | $\dashv$ |          | $\dashv$ |          |   | -        | -  | ┢  |      |          | 80       | $\vdash$        | $\dashv$ | $\dashv$  | -        | $\dashv$ |                      | ╅╼┼╴          | -             |  | 130        | ╁        | $\vdash$            |           | $\dashv$ |          |          | $\top$   | $\dashv$ | $\dashv$ |
|             | 31       | H               | _        |          | -        |          |   | -        | -  | $\vdash$   |      |          | 81       |                 | -        | -         | 1        |          |                      | 1-1           | <b>-</b>      |  | 131        | ┢        | $\Box$              | _         | ╗        | _        |          | $\top$   |          | ヿ        |
|             | 32       | $\vdash$        | _        |          | _        |          |   | $\vdash$ | ╁  |  |      |          | 82       | $\Box$          | 寸        | _†        | _        |          |                      | $\top \top$   | 7::::         |  | 132        | $\vdash$ | $\Box$              | İ         | ヿ        |          |          |          | ヿ        | ヿ        |
|             | 33       |                 | $\dashv$ | 1        | $\neg$   |          |   | Г        | <u> </u>   |  |      |          | 83       | Ħ               | T        | _         | _        | _        |                      |               |               |  | 133        |          |                     |           | T        |          |          | П        | T        | ᄀ        |
|             | 34       | -               | 一        | $\dashv$ |          |          |   |          | T  | 1  | 1    |          | 84       | П               |          | $\Box$ †  |          |          |                      |               |               |  | 134        |          |                     |           |          |          |          |          |          |          |
|             | 35       |                 |          |          |          |          |   |          |  |  |      |          | 85       |                 |          | $\Box$    |          |          |                      |               | ]             |  | 135        | 匚        |                     |           |          |          |          | $\prod$  | $\Box$   |          |
|             | 36       |                 |          |          |          |          |   |          |  |  |      |          | 86       |                 |          | $\Box$    |          |          |                      |               |               |  | 136        | _        | Ш                   |           | _        |          |          |          | _        |          |
|             | 37       |                 |          |          |          |          |   |          | Ĺ  |  |      |          | 87       | Ш               |          |           | _        | _        | $\perp \!\!\! \perp$ | $\bot\bot$    | 4             | <u> </u>   | 137        | <u> </u> | $\sqcup$            | _         | _        |          | _        |          | 4        | ᆜ        |
|             | 38       | Ш               | [        | [        | _        |          | Щ   |          | <u> </u>   |  |      |          | 88       | $\sqcup$        |          |           | _        | 4        | $\dashv$             | ++            | 4             | ļ  | 138        | ļ        | $\sqcup$            | _         | _        |          | _        | $\dashv$ |          | $\dashv$ |
|             | 39       |                 | _        |          |          |          |   | <u> </u> | <b>—</b>   | <u> </u>   |      |          | 89       | $\sqcup$        | _        | _         | -        | 4        | $\perp$              | +             | 4             | ·  | 139        | $\vdash$ | H                   | -         |          | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ |
|             | 40       | $\sqcup$        | _        |          |          |          |   | <u> </u> | ┞  | <u> </u>   |      |          | 90       | $\vdash \vdash$ | _        | $\dashv$  |          | 4        | +                    | +             | -             |  | 140        | ├        | $\vdash \downarrow$ |           | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ |
|             | 41       | $\sqcup$        | -        |          | $\dashv$ |          | Ш   |          | $\vdash$   | -  |      | <u> </u> | 91       | $\vdash \dashv$ |          | -+        | +        | $\dashv$ |                      | ++            | -             |  | 141        | $\vdash$ | $\vdash \vdash$     | $\dashv$  | -        |          | -        | ┌─┤      | $\dashv$ | $\dashv$ |
|             | 42       | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ |          | -   |          | +  | -  |      | ļ        | 92<br>93 | $\vdash$        |          | -+        | +        | $\dashv$ | -                    | ++            | $\dashv$      |  | 143        | 1        | $\vdash$            | -         | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | -        |
| -           | 44       | $\vdash$        | $\dashv$ | $\dashv$ | -        |          | $\vdash$  |          | ├-   |  |      | <u> </u> | 94       | $\vdash$        |          | $\dashv$  | +        | +        | +                    | ++            | -             |  | 144        | $\vdash$ | $\vdash$            | ᅱ         | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | ㅓ        |
| <u> </u>    | 45       | $\vdash$        | $\dashv$ | $\dashv$ | -        |          |   |          | +-   | <del> </del>                                     | liii | <b>-</b> | 95       | $\vdash$        | -        | $\dashv$  | 十        | +        | $\dashv$             | +             | -             |  | 145        | $\vdash$ | $\vdash$            | ᅥ         | ᅥ        |          |          | $\dashv$ | $\dashv$ | $\dashv$ |
| <del></del> | 46       | $\vdash$        | $\dashv$ | $\dashv$ |          | -        | <del>                                      </del> |          | +-   | <del> </del>                                     |      | <u> </u> | 96       | $\vdash$        | -        | -+        | $\dashv$ | 7        | $\top$               | 1 +           | $\exists :::$ |  | 146        |          | Ħ                   | ᅥ         | $\dashv$ | $\dashv$ |          | $\dashv$ | ヿ        | 一        |
| <b></b> -   | 47       | H               | $\dashv$ | $\dashv$ |          | _        |   | t        | $\vdash$   | $\vdash$   |      |          | 97       | H               | $\neg$   | $\dashv$  | 十        | 7        | $\top$               | + +           | 7             |  | 147        |          | $\sqcap$            | $\neg$    | $\neg$   |          |          | $\dashv$ | $\neg$   | $\neg$   |
|             | 48       | $\vdash$        | 十        |          | $\dashv$ | П        |   | $\vdash$ | <del>                                     </del> | T  |      |          | 98       | 1 1             | $\dashv$ | 寸         | 一        | $\dashv$ |                      | 1 1           |               |  | 148        |          |                     |           |          |          |          | ╛        | $\Box$   |          |
|             | 49       | П               | _        |          |          |          |   |          |  |  |      |          | 99       |                 |          |           |          |          |                      |               |               |  | 149        |          |                     |           |          |          |          |          |          |          |
|             | 50       |                 |          |          |          |          |   |          |  |  |      |          | 100      |                 |          |           | $\Box$   | $\int$   |                      | <u> 1 1 "</u> |               |  | 150        |          | Ш                   |           |          |          |          | $\Box$   |          |          |